

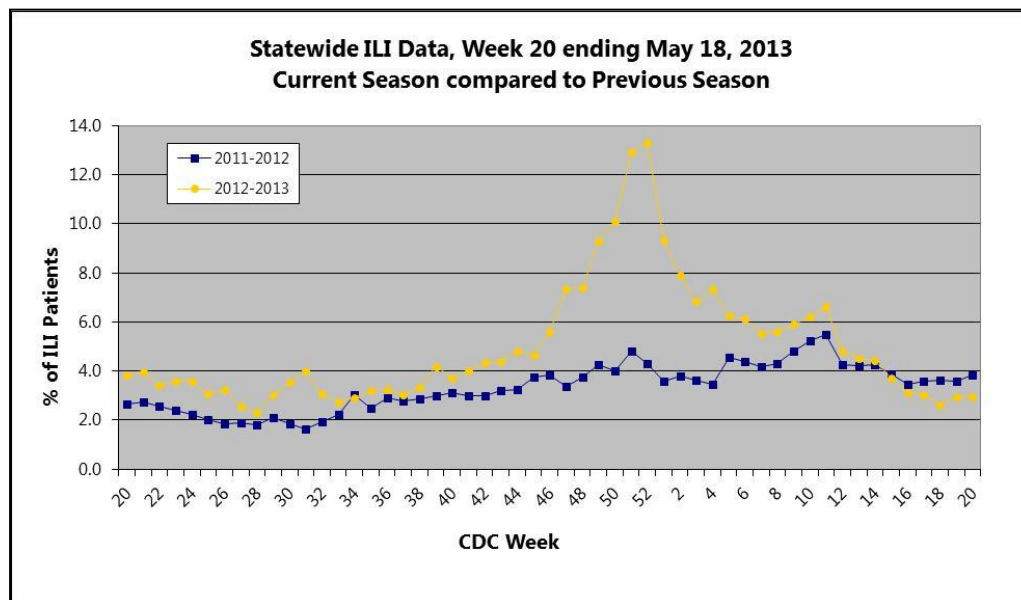


# 2012-2013 Influenza Report Week 20 May 12 – May 18, 2013

## About our flu activity reporting

MSDH relies upon selected sentinel health practitioners across the state to report the percentage of non-trauma visits consistent with an influenza-like illness (ILI: fever of 100°F or higher AND cough and/or sore throat). Also, providers are supplied with specimen collection kits. Samples are submitted to the Mississippi Public Health Laboratory for influenza PCR testing. Reports are used to estimate the state's ILI rate and the magnitude of the state's influenza activity. Reports represent only the distribution of flu in the state, not an actual count of all flu cases statewide. **Information is provisional only and may change depending on additional reporting from sentinel providers.**

## State ILI Surveillance



For week **20** (05/12/2013-05/18/2013), the overall state ILI rate (**3.0%**) was **comparable** to last week (**2.9%**), but was **lower** than this time last year (**3.8%**). |

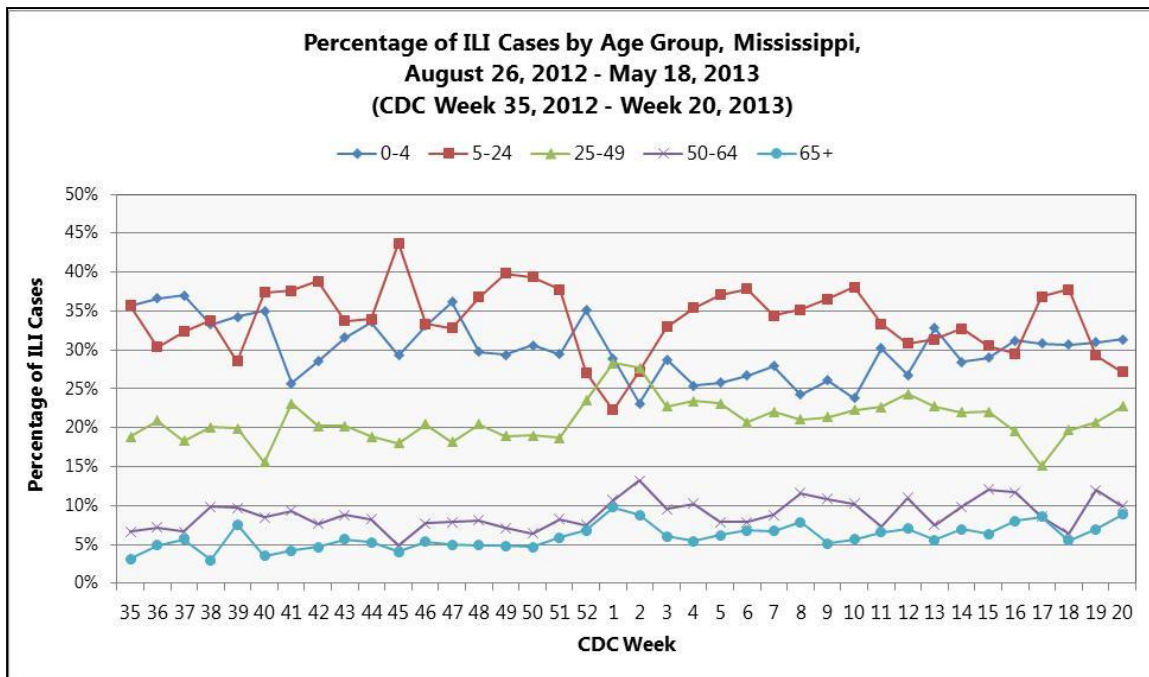
[Figure 1](#)

Total number of non-trauma patients treated by sentinel providers in the last three weeks. | **Table 1**

2012-2013 Influenza Season				
CDC Week	Week Ending	Non-trauma patients	ILI symptoms	ILI Rate (%)
<b>20</b>	<b>May 18</b>	<b>12936</b>	<b>383</b>	<b>3.0%</b>
19	May 11	12999	383	2.9%
18	May 4	13524	354	2.6%

During week **20**, **three** districts (2, 4, and 8) had an increase in ILI activity, while **two** districts (1 and 6) had a decrease. **Four** districts (3, 5, 7, and 9) remained about the same. *Information is provisional only and may change depending on additional reporting from sentinel providers.* | **Table 2**

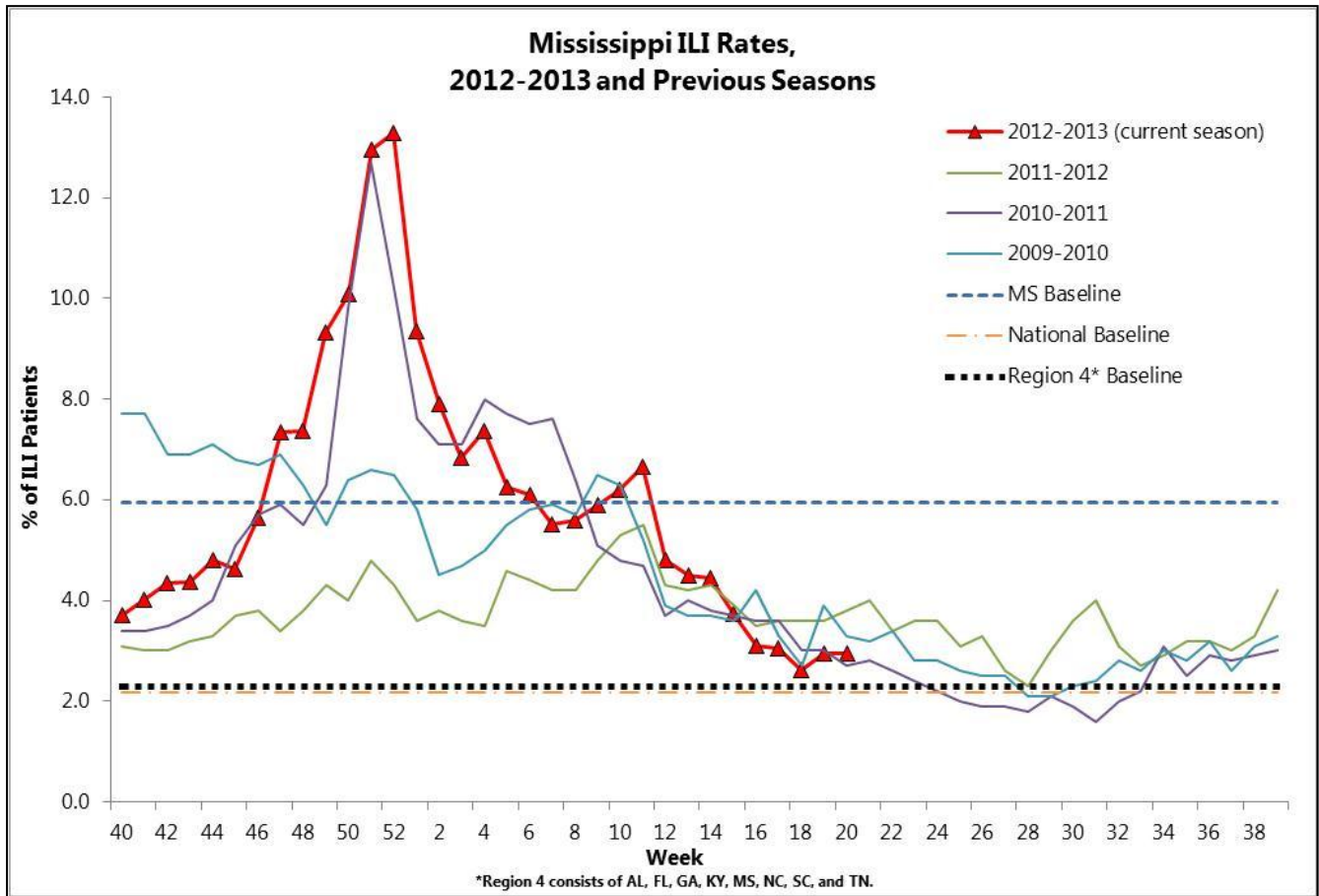
MSDH District ILI Rates (%) 2012-2013		
District	Week 19	Week 20
State	2.9	3.0
1	1.7	0.9
2	6.2	10.9
3	1.8	2.2
4	3.4	4.2
5	0.7	0.4
6	8.6	8.0
7	2.7	2.6
8	1.1	2.4
9	3.4	2.9



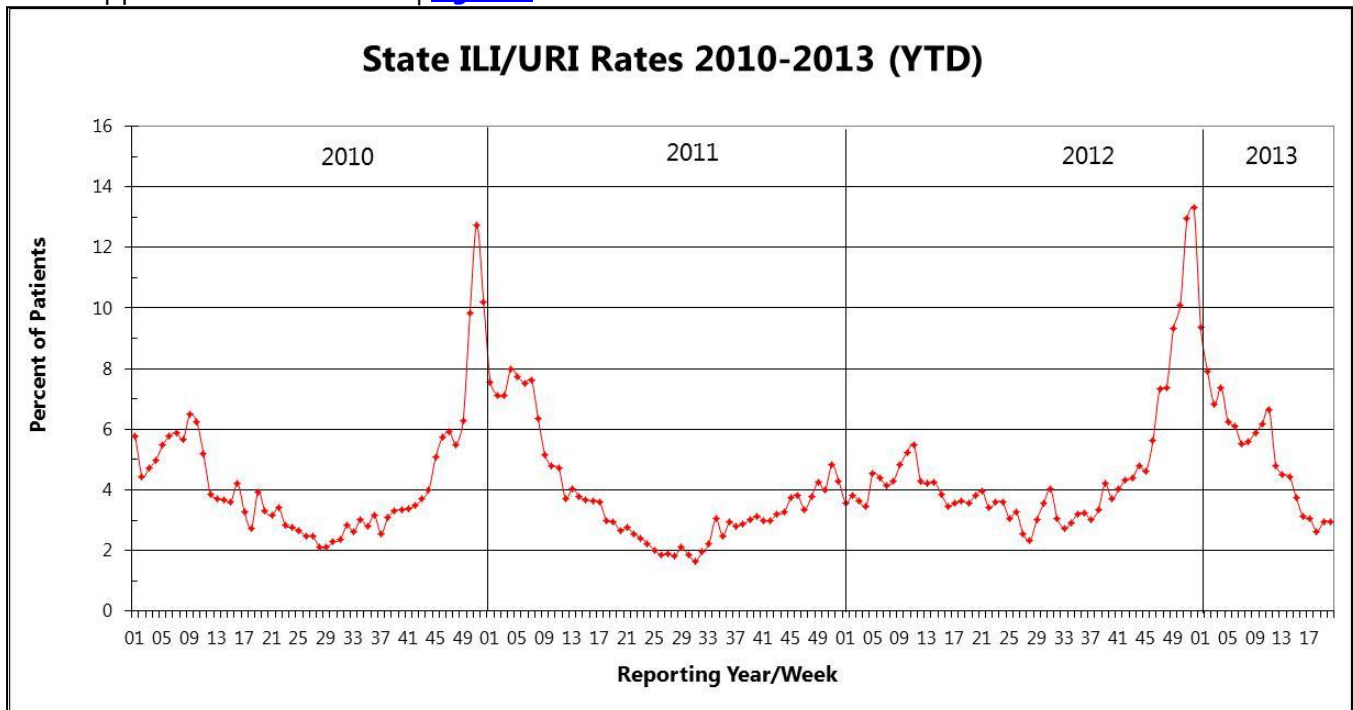
Since week 35, the percentage of reported ILI cases has been highest among those in the **5 to 24 years** of

age group, followed by those in the 0 to 4 years of age group. During week **20**, the percentage of reported ILI cases was highest among individuals in the **0 to 4 years** of age group. | [Figure 2](#)

The 2012-13 state ILI rate was **slightly above** the national and Region 4 baselines, but was **below** the state baseline for week 20. | [Figure 3](#)



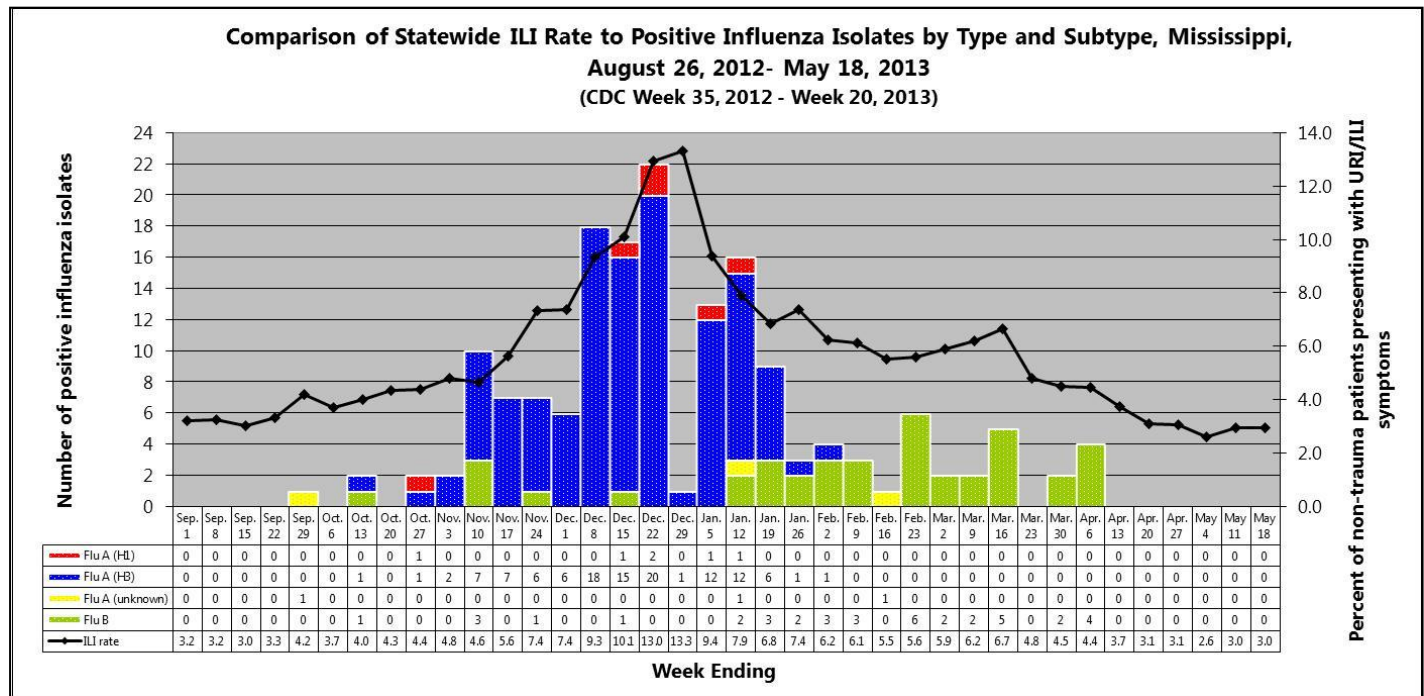
Mississippi ILI Rates 2010-2013 | [Figure 4](#)



## Flu Testing Reports

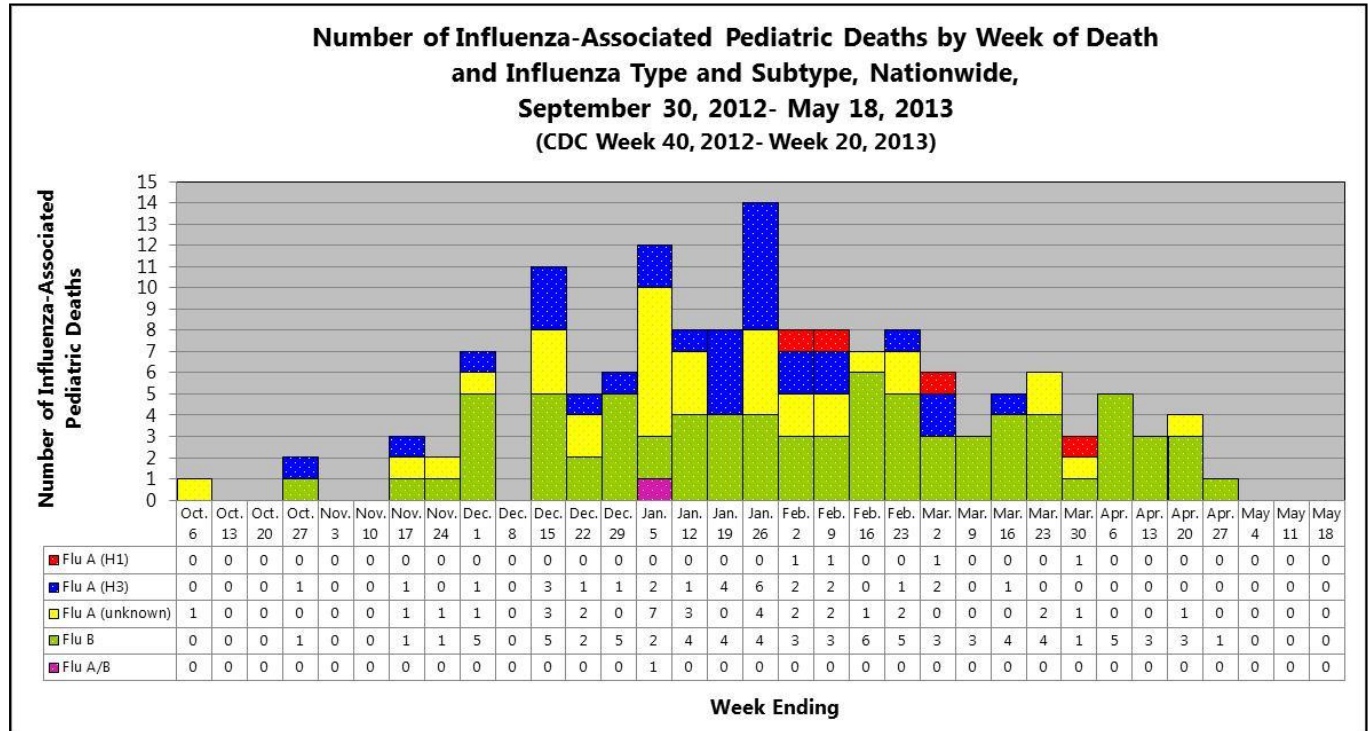
From week **35** (week ending September 1<sup>st</sup>) through week **20** (week ending May 18<sup>th</sup>), **165** positive influenza samples were identified by MSDH. 125 (76%) were influenza A and 40 (24%) were influenza B. 116 were subtyped as influenza A (H3) and six were subtyped as influenza A (H1). Three samples did not have subtyping performed. The last positive influenza sample identified by MSDH occurred in week 14 (week ending April 6<sup>th</sup>). | [Figure 5](#)

The influenza cases were identified from the following counties: Amite (2), Attala (3), Benton, Calhoun, Carroll, Chickasaw (4), Clarke (2), Clay, Copiah (2), Covington (4), DeSoto (4), Grenada, Harrison (12), Hinds (12), Itawamba (2), Jefferson Davis (5), Kemper (2), Lamar (5), Lauderdale, Lawrence, Lee (6), Leflore (3), Madison (2), Marion (4), Marshall (28), Monroe (6), Neshoba (2), Oktibbeha (7), Pearl River, Pontotoc (3), Rankin (5), Sharkey, Tate (7), Tippah (3), Tishomingo (5), Union (3), Walthall (2), Warren, Washington (7), and Yazoo (3).

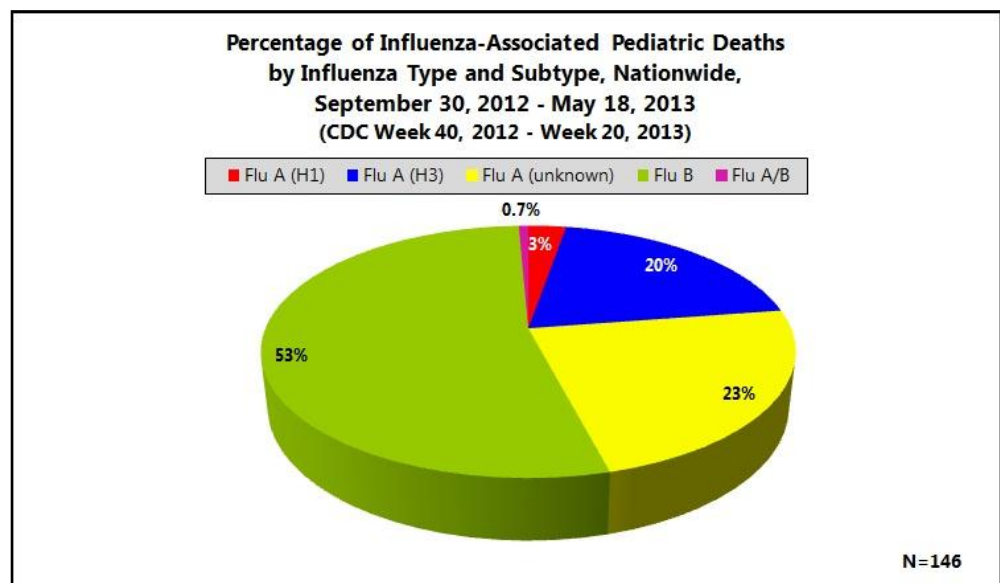


### National Pediatric Mortality Surveillance

**Nationally**, there were **seven** influenza-associated pediatric deaths reported to CDC during week **20**. One death was associated with an influenza A (H3) virus and occurred during week 01 (week ending January 5<sup>th</sup>). Two deaths were associated with influenza A viruses for which the subtype was not determined and occurred during weeks 08 (week ending February 23<sup>rd</sup>) and 13 (week ending March 30<sup>th</sup>). Four deaths were associated with influenza B viruses and occurred during weeks 09 (week ending March 2<sup>nd</sup>), 12 (week ending March 23<sup>rd</sup>), 14 (week ending April 6<sup>th</sup>), and week 16 (week ending April 20<sup>th</sup>). | [Figure 6](#)



The total number of influenza-associated pediatric deaths reported during the 2012-2013 season to date is **146**. Of the 146 deaths, 78 (53%) have been attributed influenza B viruses, 34 (23%) to influenza A viruses for which the subtype was not determined, 29 (20%) to influenza A (H3) viruses, 4 (3%) to influenza A (H1) viruses, and 1 (0.7%) to an influenza A and B virus. | [Figure 7](#)

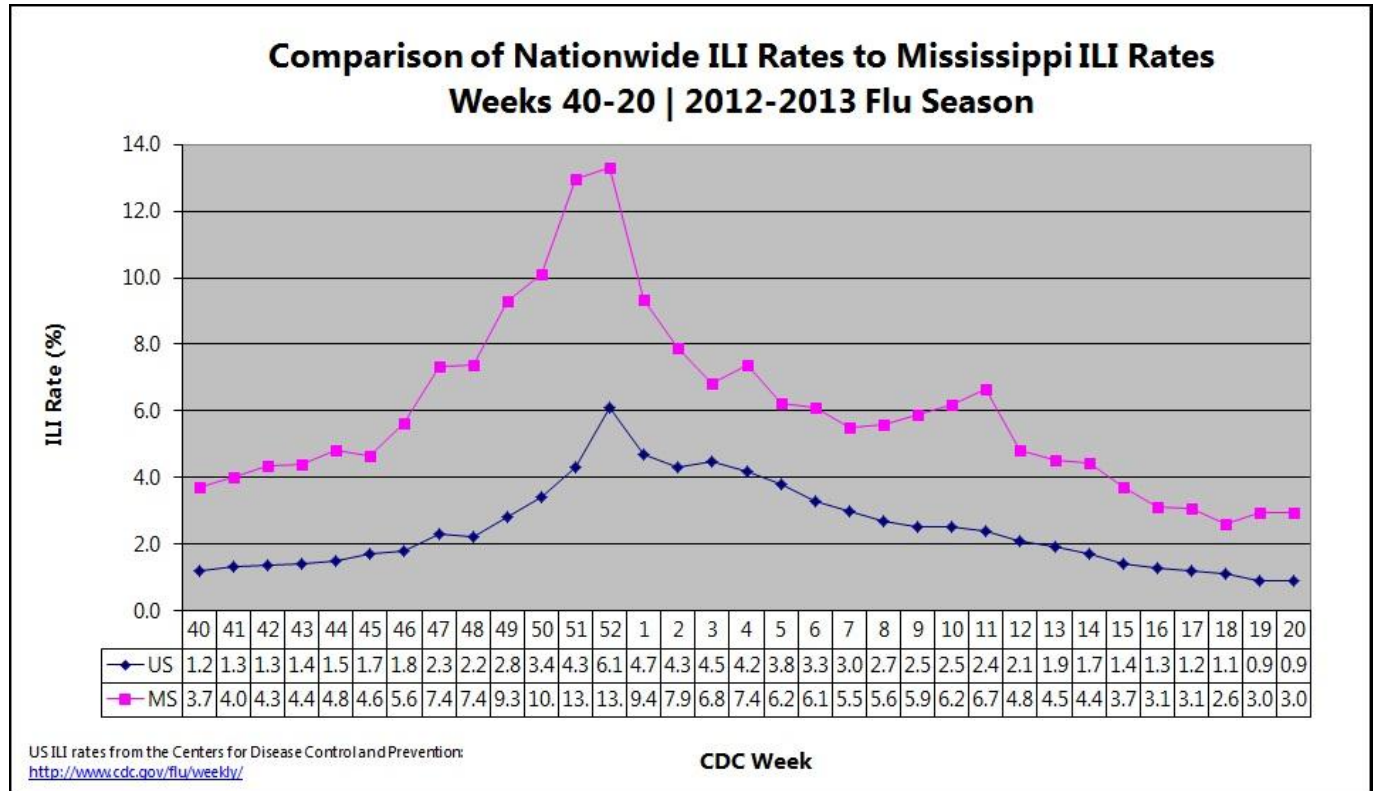




2012- 2013 Influenza Season | Week 20 Influenza Report| May 12 - May 18, 2013  
Mississippi has had **one** influenza-associated pediatric death reported during this influenza season.  
Additional data can be found at: <http://gis.cdc.gov/GRASP/Fluview/PedFluDeath.html>.

## National ILI Surveillance

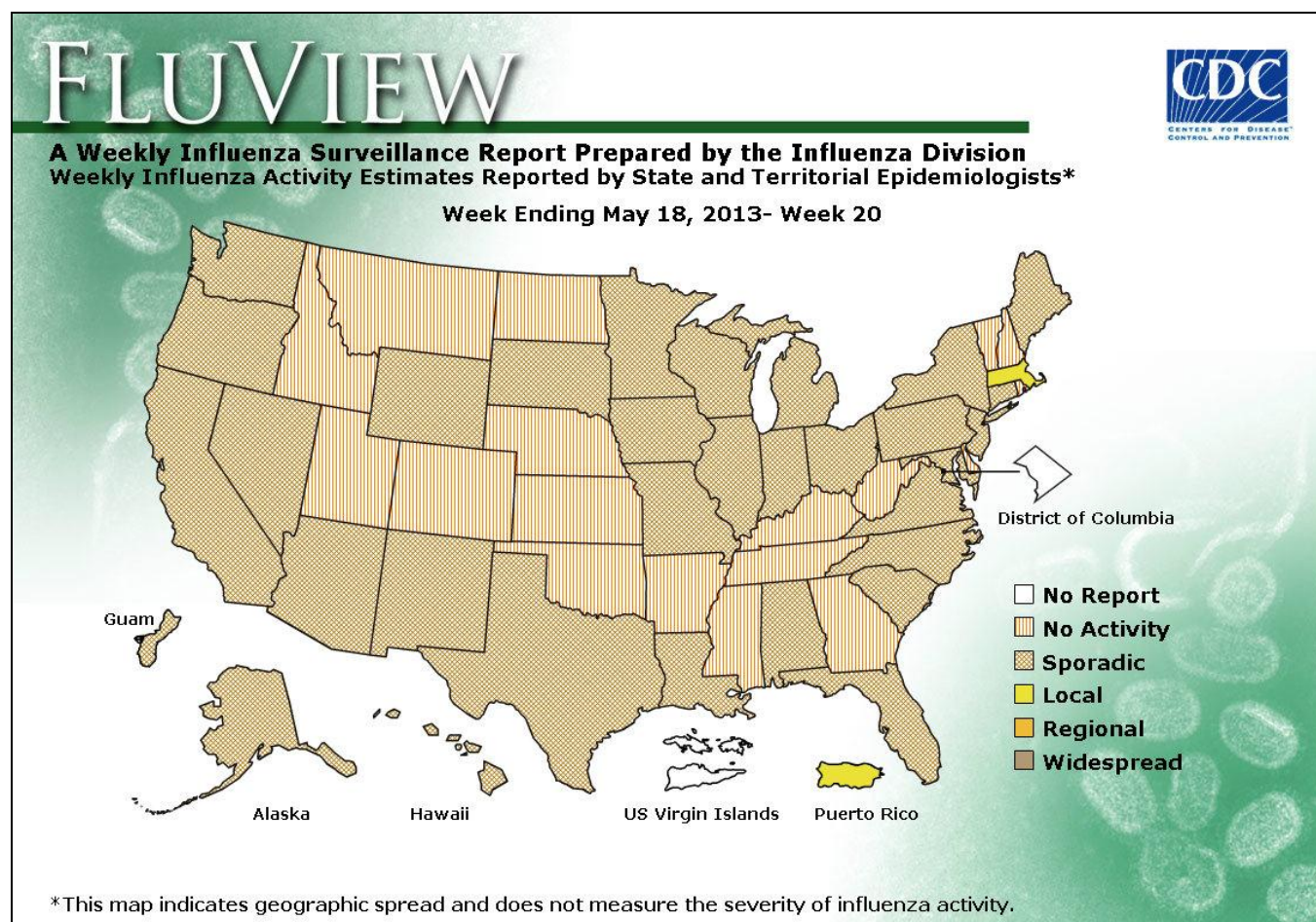
For week **20**, the MS ILI rate continued to remain **above** the national rate. | [Figure 8](#)



Mississippi reported **"No Activity"** flu activity for week **20**. | [Table 4](#)

Level of Flu Activity	Definition
<b>No Activity</b>	Overall clinical activity remains low and there are no lab confirmed cases.
<b>Sporadic</b>	Isolated cases of lab confirmed influenza in the state; ILI activity is not increased <u>OR</u> A lab-confirmed outbreak in a single institution in the state; ILI activity is not increased.
<b>Local</b>	Increased ILI within a single region <b>AND</b> recent (within the past 3 weeks) laboratory evidence of influenza in that region. ILI activity in other regions is not increased <u>OR</u> two of more institutional outbreaks (ILI or lab confirmed) within a single region <b>AND</b> recent (within the past 3 weeks) lab confirmed influenza in that region. Other regions do not have increased ILI and virus activity is no greater than sporadic in those regions
<b>Regional</b>	Increased ILI in at least 2 regions but fewer than half of the regions <b>AND</b> recent (within the past 3 weeks) lab confirmed influenza in the affected regions <u>OR</u> Institutional outbreaks (ILI or lab confirmed) in at least 2 regions but fewer than half of the regions <b>AND</b> recent lab confirmed influenza in the affected regions.
<b>Widespread</b>	Increased ILI and/or institutional outbreaks (ILI or lab confirmed) in at least half of the regions <b>AND</b> recent (within the past 3 weeks) lab confirmed influenza in the state.

During week **20**, influenza activity **remained low** in the United States.<sup>1</sup> | [Figure 9](#)



<sup>1</sup>For up-to-date information on flu activity nationwide, please refer to the CDC's website:  
<http://www.cdc.gov/flu/weekly/fluactivitysurv.htm>.

#### Additional information:

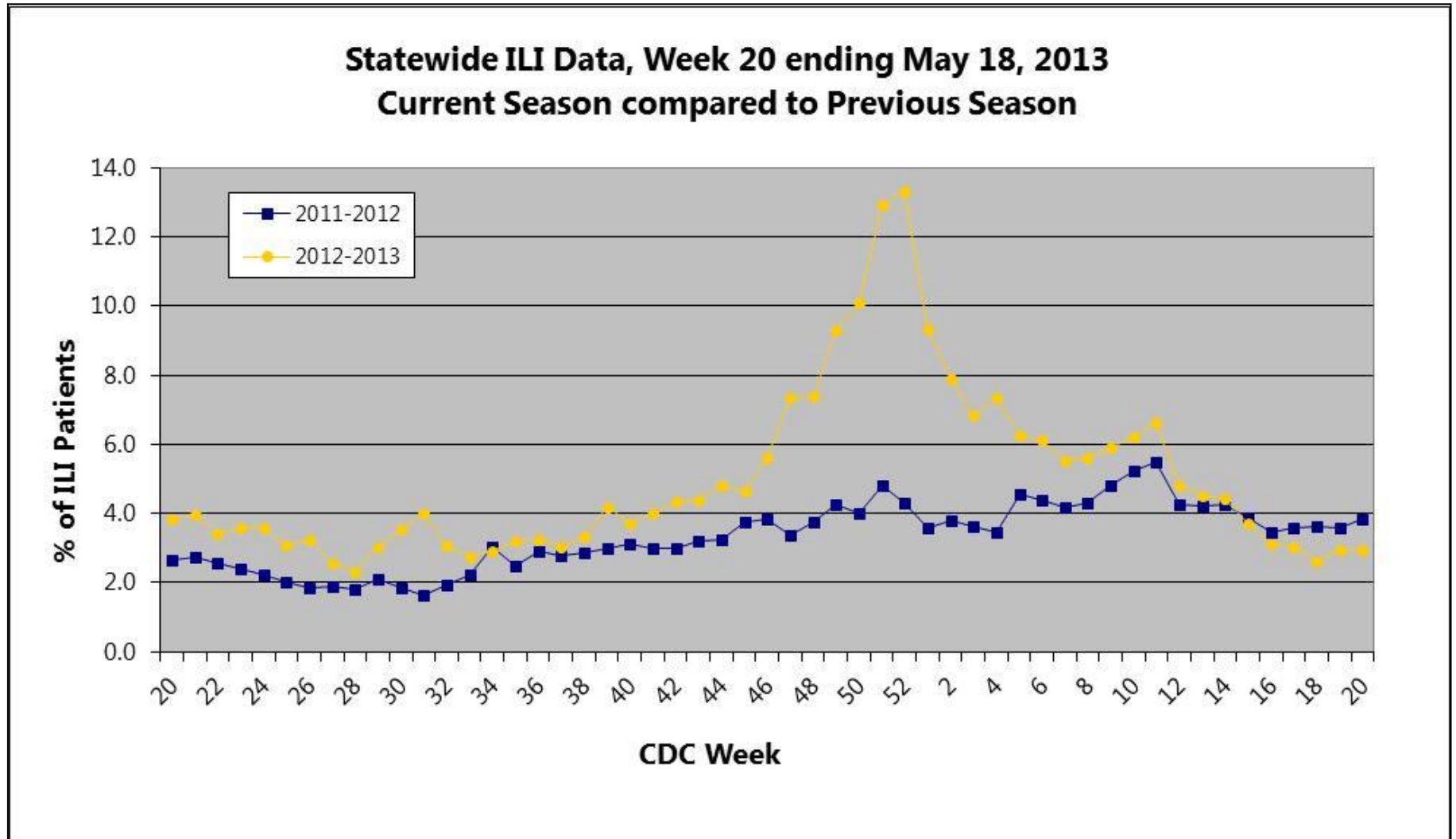
Centers for Disease Control and Prevention	<a href="http://cdc.gov/flu/">http://cdc.gov/flu/</a>
Flu.gov	<a href="http://www.flu.gov/">http://www.flu.gov/</a>
MSDH Flu and Pneumonia	<a href="http://msdh.ms.gov/msdhsite/_static/14,0,199.html">http://msdh.ms.gov/msdhsite/_static/14,0,199.html</a>
Google Flu Trends	<a href="http://www.google.org/flutrends/">http://www.google.org/flutrends/</a>
World Health Organization FluNet	<a href="http://www.who.int/influenza/gisrs_laboratory/flunet/en/">http://www.who.int/influenza/gisrs_laboratory/flunet/en/</a>

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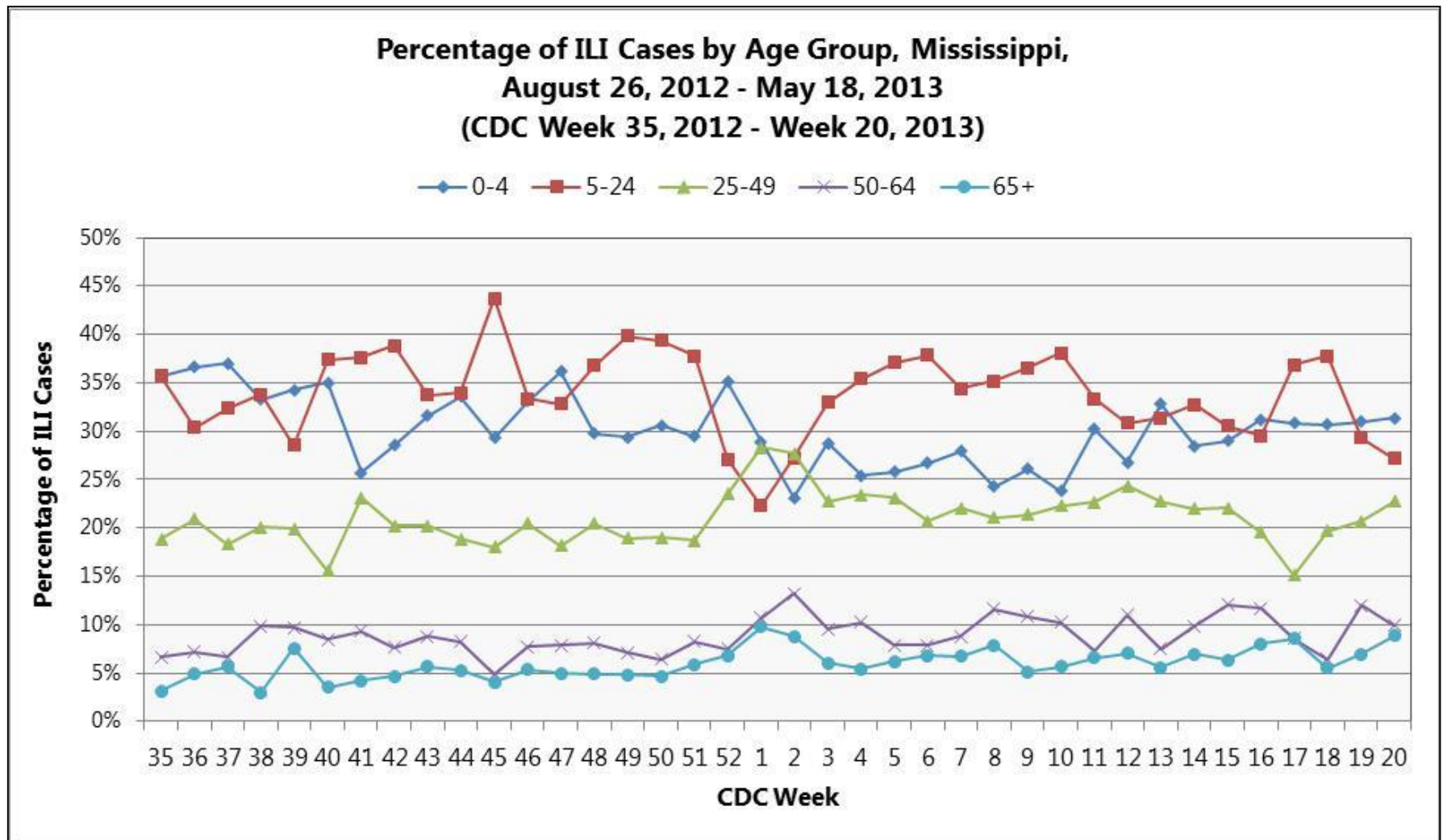


## Appendix

Figure 1



**Figure 2**



**Figure 3**

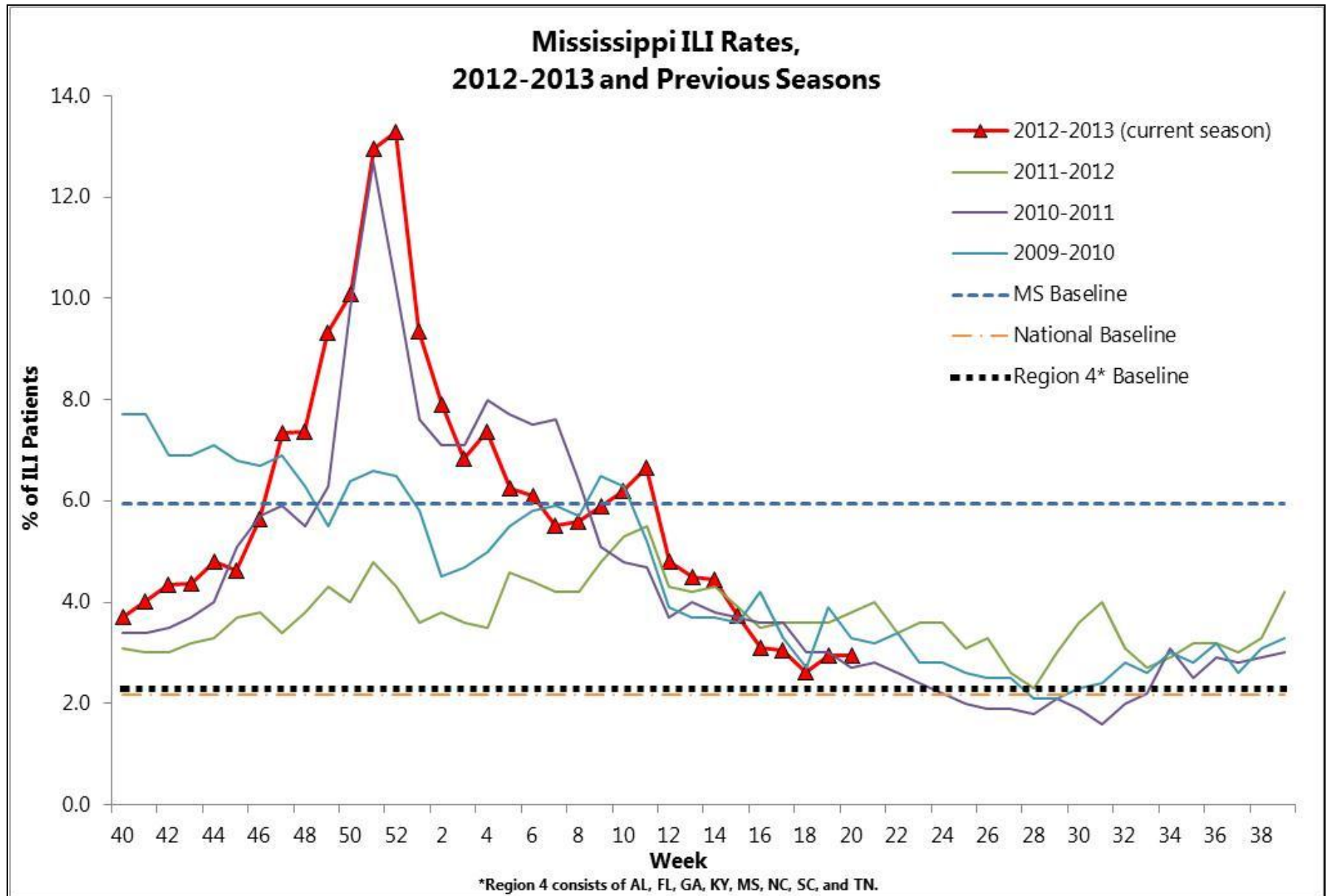
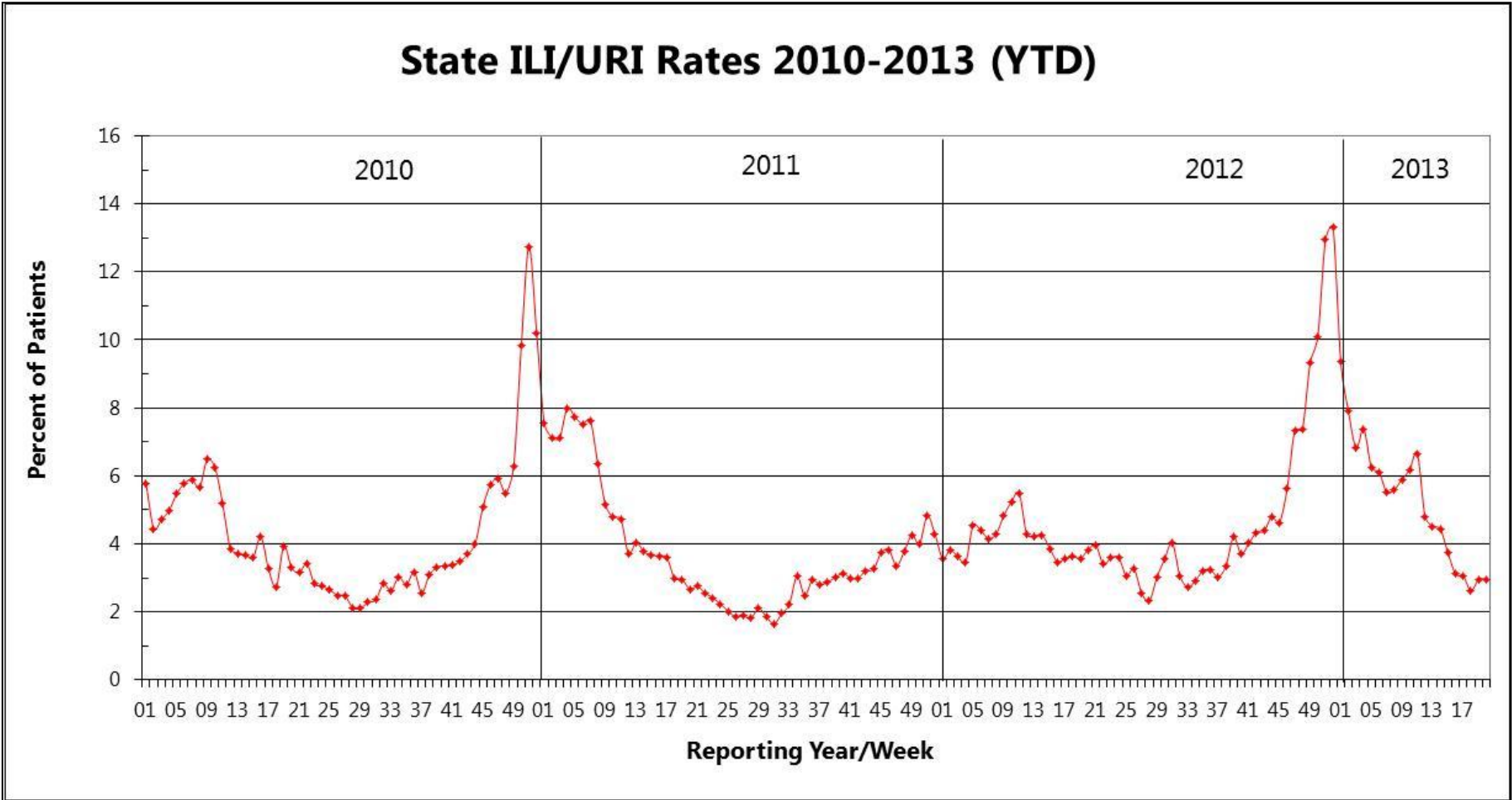
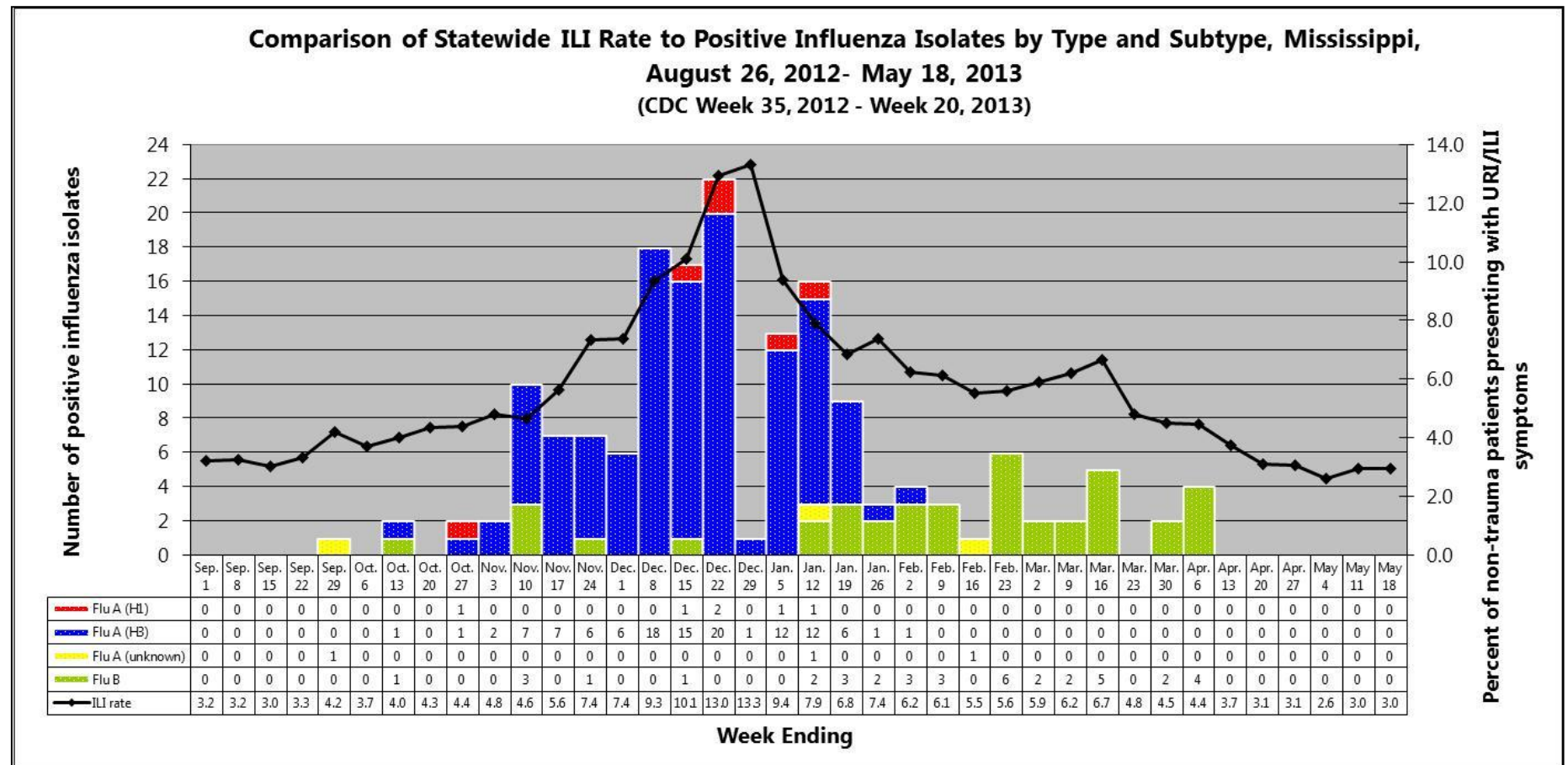


Figure 4

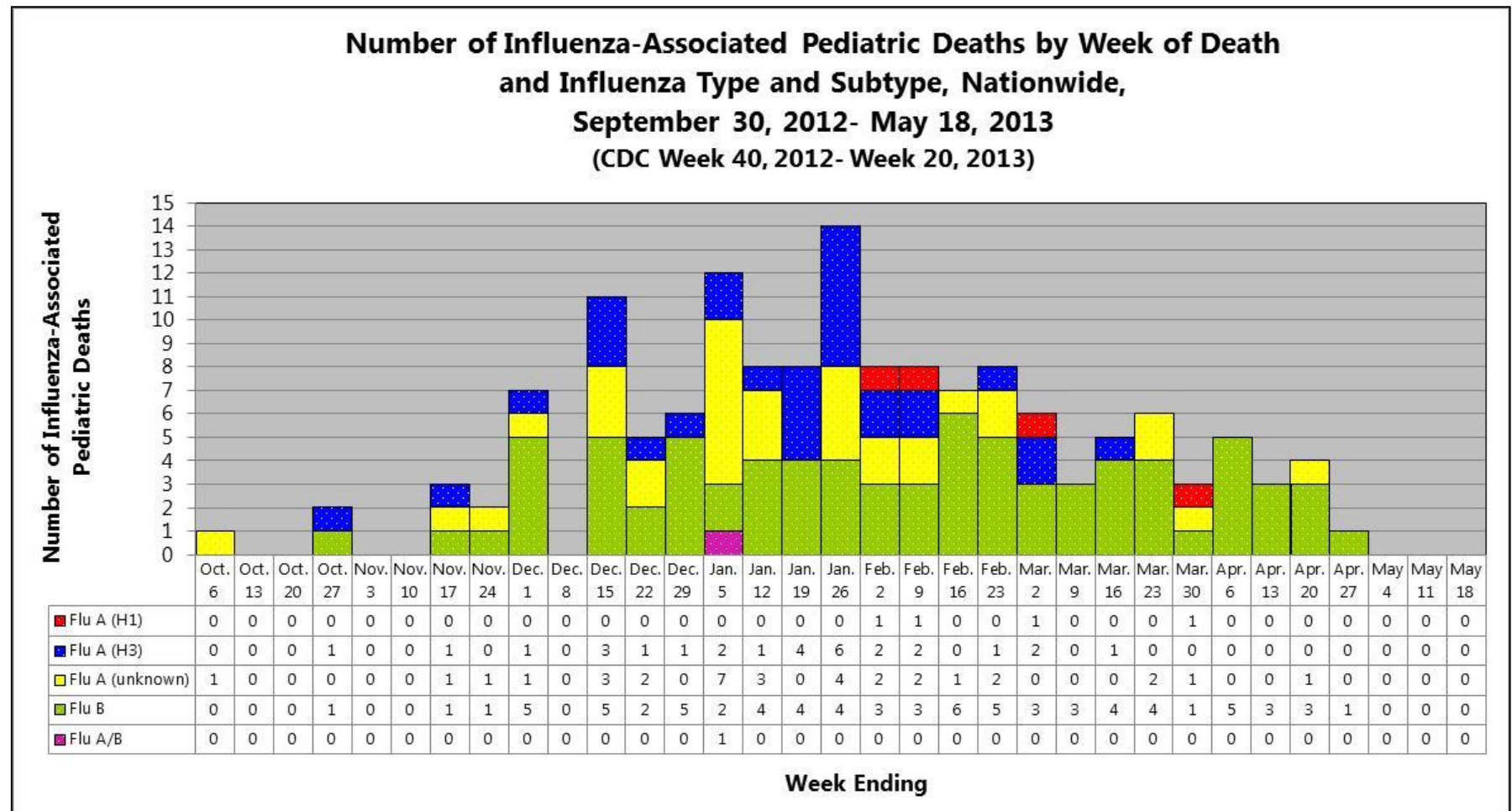




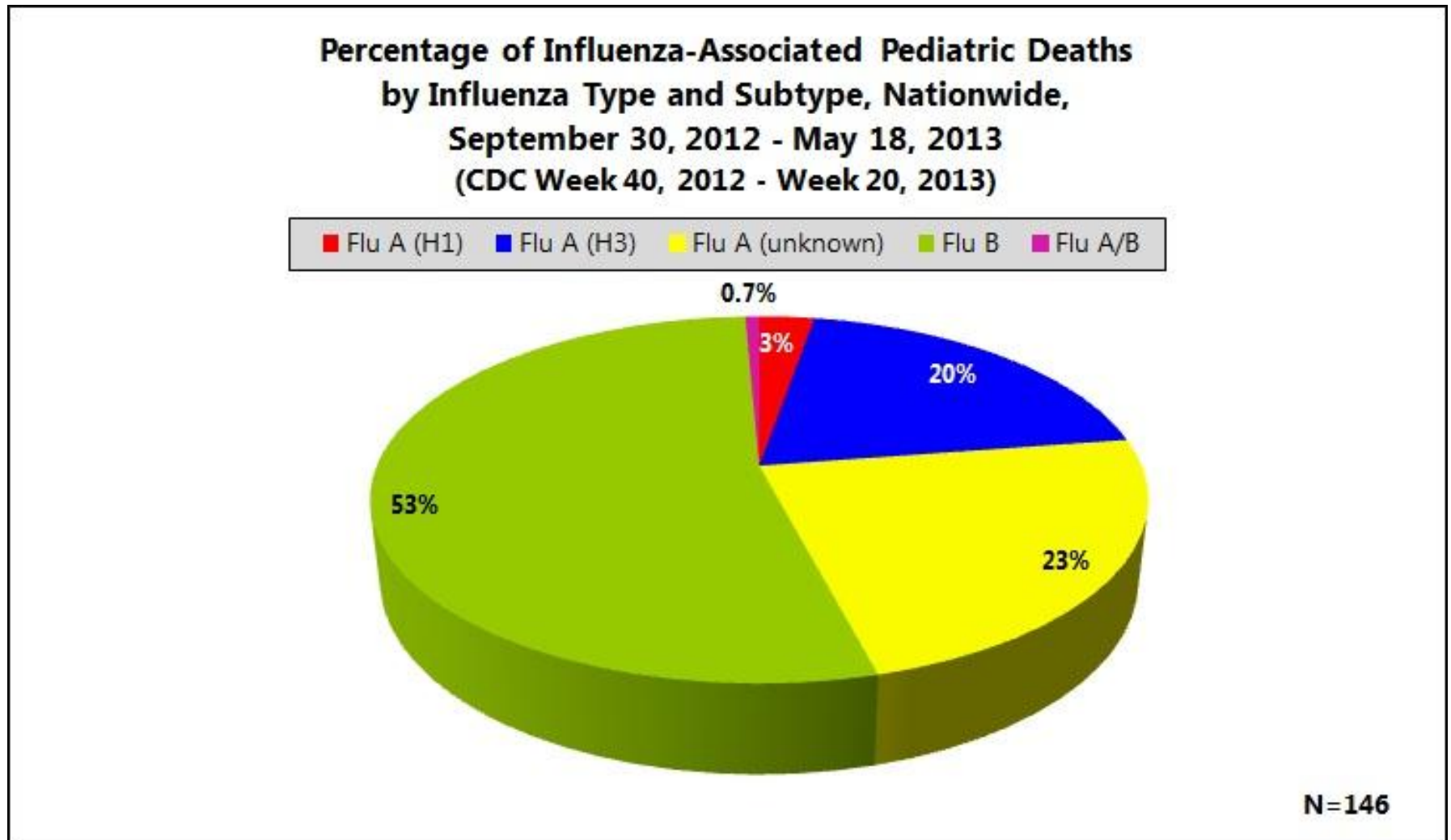
**Figure 5**



**Figure 6**



**Figure 7**



**Figure 8**

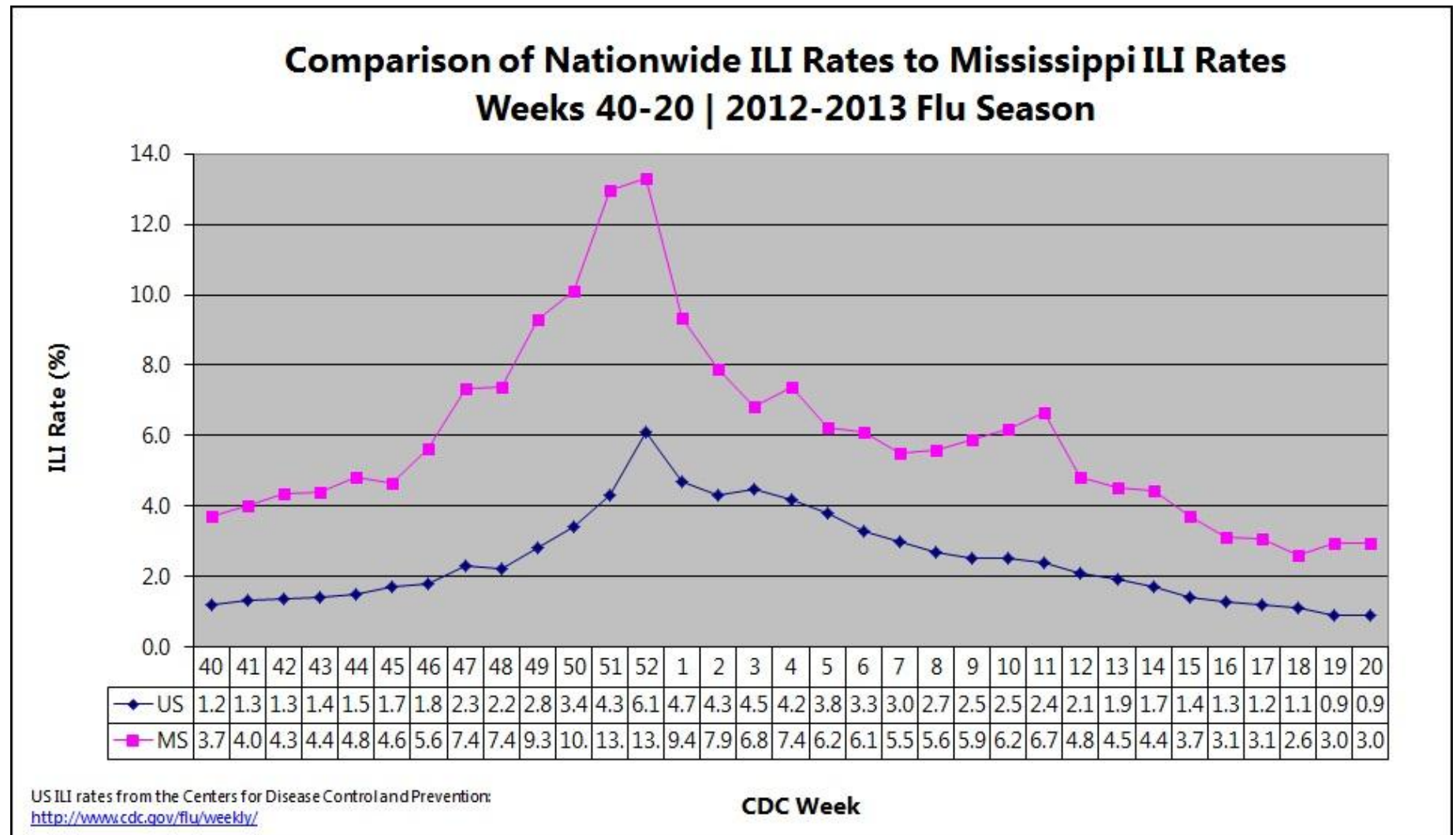




Figure 9

